**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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| In re Application of: Marc W. Rice et al. | Confirmation No.: 7526 |
| Application No.: 10/743,436 | Patent No.: 7,341,575 B2 |
| Filing Date: December 23, 2003 | Patent Date: March 11, 2008 |
| For: MEDICAL INJECTOR AND MEDICAMENT LOADING SYSTEM FOR USE THEREWITH | Attorney Docket No.: 88066-5499 |

**REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 C.F.R. § 1.323**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Patentees hereby respectfully request the issuance of a Certificate of Correction in connection with the above-identified patent. The correction is listed on the attached Form PTO-1050. The correction requested is as follows:

Column 10:

Line 58 (claim 10, line 5), before "the post" delete "by".
Line 64 (claim 12, line 1), before "**11**", change "claims" to -- claim -- .

The requested changes are to correct errors of a clerical or typographical nature and do not involve changes that would constitute new matter or require reexamination.

A fee of $100 is believed to be due for this request. Please charge the required fees to Winston & Strawn LLP Deposit Account No. 50-1814. Please issue a Certificate of Correction in due course.

Respectfully submitted,

7-31-08
Date

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212-294-3311

DC:565981.1

# UNITED STATES PATENT AND TRADEMARK OFFICE
## CERTIFICATE OF CORRECTION



PATENT NO. : 7,341,575 B2
APPLICATION NO. : 10/743,436
DATED: : March 11, 2008
INVENTOR(S) : Rice et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 10:
Line 58 (claim 10, line 5), before "the post" delete "by".
Line 64 (claim 12, line 1), before "**11**", change "claims" to -- claim -- .

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medicament cartridge **202** has a first chamber **204** that contains the lyophilized medicament, a second chamber **206** that contains the reconstituting fluid, and a dividing stopper **208** separating the two. Medicament cartridge **202** also has a bypass **210** so that once dividing stopper **208** reaches bypass **210**, the reconstituting fluid can enter first chamber **204** to reconstitute the lyophilized medicament. Movement of dividing stopper results from the threading of cap **22** to cartridge housing **24**, with threads **46**, **50**. Specifically, as cap **22** is threaded onto cartridge housing **24**, post **42** pushes stopper **28** towards adapter **20**. The resulting fluid pressure of reconstituting fluid causes dividing stopper **208** to also move toward adapter **20** until bypass **210** is reached. Once dividing stopper **208** reaches bypass **210**, further movement of stopper **28** allows the reconstituting fluid to enter into first chamber **204** and reconstitute the lyophilized medicament.

FIG. **33** shows another embodiment of a cap **212** with a bore **214** having a shape and size that matches that of the proximal end of nozzle member **60** of needle free syringe assembly **14**. As shown in FIG. **34**, the proximal end of nozzle member **60** fits snugly into bore **214**. Because of the tight fit, cap **212** and nozzle member **60** rotate together. Thus, cap **212** can be used to attach or detach nozzle member **60** from needle free syringe assembly **14**.

While it is apparent that the illustrative embodiments of the invention herein disclosed fulfill the objectives stated above, it will be appreciated that numerous modifications and other embodiments may be devised by those skilled in the art. Therefore, it will be understood that the appended claims are intended to cover all such modifications and embodiments which come within the spirit and scope of the present invention.

What is claimed is:

**1**. An injection device, comprising:

an injector filling assembly, comprising:

a cartridge housing configured for receiving a cartridge that has a chamber containing a medicament and first and second ends, the first end including a seal for sealing the medicament in the chamber, and the second end including a stopper sealingly disposed in the chamber;

an adapter associated with the cartridge housing and configured for coupling the chamber to an injector for transferring the medicament to the injector for loading the injector; and

a post associated with the cartridge housing such that the post is too short to load the injector by biasing the stopper with the post, but is sufficiently long to displace the stopper towards the seal by an amount sufficient to overcome any adhesion between the chamber and the stopper for permitting filling of the injector by drawing the medicament from the chamber by vacuum; and

a needle free injector comprising:

a needle free syringe assembly comprising: a nozzle member defining a fluid chamber and having a proximal end configured and dimensioned for mating with the second side of the adapter and a distal end, and a plunger movable in the fluid chamber; and

a power pack assembly comprising:

a housing having a proximal end connectable with the distal end of the nozzle member and a distal end;

a trigger assembly; and

an energy source operatively associated with the trigger assembly so that movement of the trigger assembly activates the energy source to move the plunger in a first direction to expel medicament from the fluid chamber when the adapter is not connected to the needle free syringe assembly and movement of the plunger in a second direction draws medicament out of the cartridge chamber and into the fluid chamber when the adapter is connected to the needle free syringe assembly.

**2**. The injection device of claim **1**, wherein the filling assembly further comprises the cartridge.

**3**. The injection device of claim **2**, wherein the medicament chamber comprises a first chamber containing a lyophilized medicament, a second chamber containing a reconstituting fluid, a dividing member separating the first and second chambers, and a bypass channel for providing fluid communication between the first and second chambers upon movement of the dividing member, wherein fluid pressure generated by movement of the stopper causes movement of the dividing member.

**4**. The injection device of claim **1**, wherein the injector and filling assembly comprise threaded portions configured for connecting to each other.

**5**. A method of filling the injection device of claim **1**, comprising:

associating the adapter with the cartridge to associate the chamber with the injector;

associating the adapter with the injector;

displacing the stopper within the chamber with the post; and

transferring the medicament to the injector from the chamber by providing aspiration from the injector.

**6**. The injection device of claim **1**, wherein the post is associated with the cartridge housing such that movement of the post towards the first end is limited to limit the displacement of the stopper by the post for permitting the majority of the medicament to be drawn out of the chamber by vacuum.

**7**. The injection device of claim **1**, wherein the post is associated with the cartridge housing such that the post is prevented from moving past a post position to prevent the post from further displacing the stopper towards the seal to require loading the injector by drawing the medicament from the chamber by vacuum.

**8**. The injection device of claim **7**, wherein the post in the post position is prevented from further displacing the stopper towards the seal so that the majority of the medicament must be drawn out of the chamber by vacuum.

**9**. The injection device of claim **1**, wherein the post is associated with the housing such that the post is prevented from displacing the stopper towards the seal by distance sufficient to expel a substantial amount of the medicament from the chamber when the seal is open.

**10**. The injection device of claim **1**, wherein the assembly further comprises a cap to which the post is mounted, the cap being engageable with the cartridge housing on a side of the housing opposite from the adapter to limit displacement of the stopper towards by the post.

**11**. The injection device of claim **10**, wherein the cap is engageable with the housing such that upon said engagement the post is moved against the stopper to displace the stopper sufficiently to overcome the adhesion.

**12**. The injection device of claims **11**, wherein the cap and housing comprise threads that are engageable by rotating the cap to limit the displacement of the stopper towards the seal by the post.